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Gordon B. Davis , John T. Gorgone , J. Daniel Couger , David L. Feinstein , Herbert E. Longenecker
ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems December 1997
Volume 28 Issue 1

2 A project-intensive software design course 89%
Evans J. Adams
ACM SIGCSE Bulletin , Proceedings of the twenty-fourth SIGCSE technical symposium on Computer science education March 1993
Volume 25 Issue 1

3 Simulation in software engineering training 87%
Anke Drappa , Jochen Ludewig
Proceedings of the 22nd international conference on Software engineering June 2000
Simulation is frequently used for training in many application areas like aviation and economics, but not in software engineering. We present the SESAM project which focuses on software engineering education using simulation. In the SESAM project a simulator was developed. Using this simulator, a student can take the role of a software project manager. The simulated software project can be finished within a couple of hours because it is simulated in "quick-motion" mode.

4 When the project absolutely must get done: marrying the organization chart with the precedence diagram 85%

Stan Rifkin

Proceedings of the 22nd international conference on Software engineering June 2000

Very little is new in project planning, but this is! We present a technique to marry the organization chart with a project's task precedence diagram. This permits us to simulate the project at a micro, project-specific level never before achieved. We can perform "what-if" scenarios related to organization structures, the deployment of specific individuals and skills, and the structure of information flow and exception-handling in a project. The tool used, ViteProject, was develo ...

5 Software project management: the manager's view 85%

Jaak Jurison

Communications of the AIS November 1999

6 The impact of total quality management on the roles and responsibilities of information systems professionals 84%

Mary Sumner

Proceedings of the 1993 conference on Computer personnel research June 1993

7 Intelligent interactive video simulation of a code inspection 82%

Scott M. Stevens

Communications of the ACM July 1989

Volume 32 Issue 7

The need for technological solutions to learning, in the software engineering field is increasing. The Advanced Learning Technologies Project (ALT) has developed a highly interactive, high-fidelity simulation of group process communication. The first course demonstrating these techniques is on the formal technical review known as code inspection.

8 The Software Life Cycle Support Environment (SLCSE): a computer based framework for developing software systems 82%

Tom Strelich

ACM SIGPLAN Notices , Proceedings of the third ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments January 1989

Volume 24 Issue 2

The Software Life Cycle Support Environment (SLCSE) is a VAX/VMS-based software development environment framework which presents a common and consistent user interface accessing a comprehensive set of software development tools supporting the full spectrum of DOD-STD-2 167A software life cycle activities from Requirements Analysis to Maintenance. These tools utilize a Project Database which maintains information relevant not only to the software under development (e.g., requirements allocat ...

9 Technology insertion: establishing an object-oriented life-cycle methodology 82%

John A. Anderson

Proceedings of the seventh Washington Ada symposium on Ada July 1990

10 Changing the engine of the car? (panel): while driving 60 miles an hour! 82%

Jim Coplien , Luke Hohmann , Norm Kerth , John Rae-Grant , Eileen Strider

ACM SIGPLAN Notices , Proceedings of the 1997 ACM SIGPLAN conference on Object-oriented programming systems, languages and applications October 1997 Volume 32 Issue 10

Most software development projects don't practice what is usually considered "proper" software engineering practices: well-documented, traceable requirements do not exist, formal inspections are non-existent, analysis and design inodels are incomplete or not even done at all, and so forth. We know that many of these projects fail, and it is easy to blame the failure of the project on the lack of good software engineering practices ("If we only had well-documented requirements, a complete and tho ...

11 Measuring requirements testing:: experience report 82%

Theodore Hammer , Linda Rosenberg , Lenore Huffman , Lawrence Hyatt

Proceedings of the 19th international conference on Software engineering May 1997

12 GRIDS—graph-based, integrated development of software: integrating different perspectives of software engineering 82%

Andreas Zamperoni

Proceedings of the 18th international conference on Software engineering May 1996

13 DAIDA: an environment for evolving information systems 82%

M. Jarke , J. Mylopoulos , J. W. Schmidt , Y. Vassiliou

ACM Transactions on Information Systems (TOIS) January 1992 Volume 10 Issue 1

We present a framework for the development of information systems based on the premise that the knowledge that influences the development process needs to somehow be captured, represented, and managed if the development process is to be rationalized. Experiences with a prototype environment developed in ESPRIT project DAIDA demonstrate the approach. The project has implemented an environment based on state-of-the-art languages for requirements modeling, design and implementation of informat ...

14 Lessons learned from modeling the dynamics of software development 82%

Tarek K. Abdel-Hamid , Stuart E. Madnick

Communications of the ACM December 1989 Volume 32 Issue 12

Software systems development has been plagued by cost overruns, late deliveries, poor reliability, and user dissatisfaction. This article presents a paradigm for the study of software project management that is grounded in the feedback systems principles of system dynamics.

15 The dimensions and correlates of systems development quality 82%

T. Ravichandran , Arun Rai

Proceedings of the 1994 computer personnel research conference on Reinventing IS : managing information technology in changing organizations: managing information technology in changing organizations April 1994

The need to improve systems development quality is increasingly felt by information systems departments in organizations. A clear definition of systems development

quality is required to focus quality management efforts. We develop a broader definition of quality by identifying product and process dimensions of quality that systems development should ensure, and present a framework to classify systems development quality metrics.We then go on to develop, a theoretical model to ex ...

16 Technology transfer: experiences in introducing object-oriented methods to government projects 82%

John A. Anderson , Elaine S. Ward

Proceedings of the eighth annual Washington Ada symposium & summer SIGAda meeting on Ada: software: foundation for competitveness June 1991

This paper describes the challenges and solutions encountered while introducing and refining a comprehensive object-oriented life-cycle methodology to government deliverable projects. The paper focuses on techniques that have promoted efficient, two-way technology transfer between development teams and a methodology process group cooperatively applying object-oriented requirements analysis and design methods. These experiences have resulted in efficiently documenting an effective repeatable ...

17 SPTP: the Software Process Training Program 82%

H. Heide , A. Lindheim , W. P. Selfridge

Proceedings of the conference on TRI-Ada '91: today's accomplishments; tomorrow's expectations December 1991

18 RASP: a resource allocator for software projects 80%

C. Bertazzoni , Fosca Giannotti

Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2 June 1990

Rasp is a resource allocator that tries to apply artificial intelligence techniques in the project management field. Rasp expresses and manipulates all aspects concerning resource allocation exploiting a combined approach which integrates the logic programming paradigm with spreadsheet technology.

19 Software Engineering tutorial 80%

Murray R. Berkowitz , Gordon Davis , Kenneth T. Orr , James A. Senn , Darrell Ward

Proceedings of the ACM '81 conference January 1981

The field of Software Engineering has undergone some of the most profound changes in the last decade. In recent years, the National ACM Conferences have been giving increasing attention to Software Engineering—"Structured Program Planning and Design: Standardization Needs" (ACM '79 - Detroit) and " More on Structured Design" (ACM '80 - Nashville). This session contains treatment of software engineering with emphasis on real applications. Presented ar ...

20 Application of modern software techniques to modeling and simulation 80%

Ronald M. Huhn , Edward R. Comer

Proceedings of the 13th conference on Winter simulation - Volume 1 January 1981

It is commonly agreed that software developments tend to be high risk activities; simulation is recognized as being even more "exciting". Great emphasis is being placed to develop methodologies which lower the risk of software development. Since a major portion of simulation activity is software oriented, it is natural to look to these modern software methodologies for solutions applicable to the modeling and simulation community. The total solution to current dilemmas is many y ...

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